

**Summary – May 14, 2003**  
**California Bay-Delta Public Advisory Committee**  
**Water Supply Subcommittee**

**Attendance**

Subcommittee members and alternates in attendance: Steve Hall, Jerry Meral, Richard Denton, Randall Neudeck, Bernice Sullivan, Allan Zepp, Gary Bobker, Lloyd Fryer

***The meeting focused on the following agenda items:***

- Draft Report on Budgets for Storage Projects
- Central Valley Conjunctive Use Program
- Desalination

**Draft Report on Budgets for Storage Projects**

Steve Hall opened the meeting by discussing the draft report that addresses the funding needs and the availability of those funds for the storage projects. Steve is concerned that that lack of funding (specifically federal funding) will put some of the projects out of balance and that they will fall behind. The draft report on funding vs. need for storage projects should include the ROD schedule and where we are in the schedule. Steve Roberts mentioned that the draft report has been sent to him for review. Steve Hall will review the draft report and provide comments back to Steve Roberts. Eugenia Laycheck will help finalize the report if needed and will submit it to the BDPAC in June.

Gary Bobker mentioned that it appears more funding has been allocated to those projects identified as Tier 2 in the ROD than Tier 1 projects. Mark Cowin and Steve Roberts replied that the ROD did not specify funding priority between Tier 1 and Tier 2 projects.

**Action:** Storage staff will include an evaluation of storage funding and need in the draft report on Budgets for Storage Projects.

**Central Valley Conjunctive Use Program**

John King of the Natural Heritage Institute gave a presentation on the Central Valley Conjunctive Use Management Opportunities. The presentation discussed some of the environmental benefits of conjunctive use and showed potential groundwater banking sites in the Sacramento and San Joaquin Valleys. The presentation also discussed fluvial restoration concepts that can be achieved by conjunctive use. There are three reports prepared by NHI under funding by USBR that are available on NHI's website (Estimating the Potential for In Lieu Conjunctive Water Management in the Central Valley of California, February 2002, Designing Successful Groundwater Banking Programs in the Central Valley, The Hydrogeologic Suitability of Potential Groundwater Banking Sites in the Central Valley of California, September 2001).

Steve Hall asked if the NHI's studies have been peer-reviewed. John King replied that NHI's studies have been peer-reviewed and that NHI has presented the studies to many different groups.

### **Desalination**

(a) Darryl Miller, General Manager of West Basin Municipal Water District, gave a presentation on ocean-water desalination. His presentation focused on the need, benefits, and costs for desalination. He also showed the costs of five desalination projects that are being planned range from \$70 million to \$272 million for size of 12 mgd to 50 mgd, respectively.

(b) Kevin Wattier, General Manager of Long Beach Water Department, gave a presentation on Community-based Seawater Desalination. His presentation discussed Long Beach's water supply and its pilot desalination plant. The pilot desalination plant uses a 2-stage nanofiltration process and has a capacity of 9,000 gpd.

(c) Peter MacLaggan of Poseidon Resources gave a presentation on Tampa Bay, Huntington Beach & Carlsbad Desalination Projects. The presentation included photos of the three desalination plants (Tampa Bay, Hunting Beach, and Carlsbad). The Tampa Bay Plant has a capacity of 28 mgd and an estimated cost of \$110 million. The Huntington Beach and Carlsbad Plants both have a capacity of 50 mgd and an estimated cost of \$250 million. All of these plants used reverse osmosis membrane filtration. The Tampa Bay Plant is fully operational, and the Huntington Beach and Carlsbad Plants are schedule to be on-line in 2006.

There was a discussion on the difficulty with obtaining permits for desalination projects. A total of 24 permits are required to construct and operate a desalination project.

**Action:** A discussion on the agenda item: "Review Subcommittee Rule" will be delayed until the July 2003 meeting.